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3 June 1970

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MEMORANDUM FOR: [] CIA-OSR-SF/D

SUBJECT : Analysis of Selected Soviet Air Warning Radar Facilities

REFERENCES : CIA []
(NPIC Project 250519AI)

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1. This memorandum, one of a series in response to the referenced requirement, presents details of four Soviet air warning radar facilities. Each of the facilities described below has been analyzed on all available high-resolution KEYHOLE photography. Annotated photographs and a chronological table indicating the number and types of radars observed at individual facilities on specific missions are forwarded as attachments. The dimensions given in this memorandum are accurate to within [] plus 1 percent) with a 95 percent confidence level.

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2. The selected air warning radar facilities included in this memorandum are:

- a. Kansk TALL KING AW Radar Facility
56-08-21N 095-39-51E, []

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The best available KEYHOLE coverage of the Kansk TALL KING Air Warning Radar Facility (Attachments 1 and 1-A), located 4 nautical miles (nm) south-southwest of Kansk, USSR, was in [] At that time it consisted of one TALL KING radar, one FLAT FACE radar, one BAR LOCK radar, one ROCK CAKE/STONE CAKE radar, one SIDE NET radar, one possible SPOON REST radar, one unoccupied radar mound, and seven FORK REST-type very high frequency (VHF) antennas. As of [] the facility consisted of one TALL KING radar, five occupied radar mounds, and one unoccupied radar mound. The facility also contains one control building, one arch-roof control bunker under construction, four open revetments, three covered revetments, five vans or trucks, and 13 support buildings. Hardening activity similar to the unique hardening activity found at the Bratsk, Petropavlovsk, and Naryan Mar AW radar facilities is present at the facility. No housing or barracks are identified.

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- b. Mys Izbushechnyy Low-Altitude Air Warning Radar Facility
60-30-45N 032-36-40E, [REDACTED]

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As of [REDACTED] the Mys Izbushechnyy Low-Altitude Air Warning Radar Facility (Attachments 2 and 2-A), located 1.2 nm south-southwest of Mys Izbushechnyy, USSR, consists of two THIN SKIN radars, two SQUAT EYE radars, one earth-covered fuel storage area, and eight FORK REST-type VHF antennas. Fifteen buildings are located at the facility, including three barracks which have a total floorspace of [REDACTED] feet).

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- c. Tyuratam Air Warning Radar Facility
45-53-03N 063-26-12E, [REDACTED]

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The best available KEYHOLE coverage of the Tyuratam Air Warning Radar Facility (Attachments 3 and 3-A), located 5.5 nm east-southeast of Tyuratam ICBM Launch Test Site A 2/3 [REDACTED] was in [REDACTED]. At that time it consisted of two BACK NET radars, two SIDE NET radars, three FLAT FACE radars, one BAR LOCK radar, one SQUAT EYE radar, two KNIFE REST radars, and one earth-covered control building under construction. As of [REDACTED] there are two BACK NET radars, one BAR LOCK radar, four occupied radar mounds, one unoccupied radar mound, and four mounds whose status is undetermined. The facility also consists of four covered revetments, 20 vans or trucks, and one unoccupied radar mound. An adjacent support area contains 37 buildings, including 11 barracks and apartment buildings which have a total floorspace of [REDACTED]. The air warning radar facility apparently shares the support area with the Tyuratam Missile Test Center SAM Support Facility [REDACTED]. It cannot be determined what portion of the billeting space is used for the air warning radar facility.

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- d. Kazan Air Warning Radar Facility
55-53-50N 049-05-40E, [REDACTED]

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The best available KEYHOLE coverage of the Kazan Air Warning Radar Facility (Attachments 4 and 4-A), located 6 nm north of Kazan, USSR, was in [REDACTED]. At that time it consisted of one BAR LOCK radar, one probable BAR LOCK radar being assembled, three buildings, one truck, and three vans. As of [REDACTED] the facility contained one BAR LOCK radar and one unoccupied radar mound. No barracks for the facility are identified.

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3. This is a partial response to the requirement. Any further inquiries should be directed to [redacted] NPIC/IEG/SD/EB, IDS Code 143,

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Chief, Imagery Exploitation Group
NPIC

Attachments:

- 1 Kansk TALL KING Air Warning Radar Facility
- 1-A Radars observed at Kansk TALL KING Air Warning Radar Facility
- 2 Mys Izbushchekny Low-Altitude Air Warning Radar Facility
- 2-A Radars observed at Mys Izbushchekny Low-Altitude Air Warning Radar Facility
- 3 Tyuratam Air Warning Radar Facility
- 3-A Radars observed at Tyuratam Air Warning Radar Facility
- 4 Kazan Air Warning Radar Facility
- 4-A Radars observed at Kazan Air Warning Radar Facility

Distribution:

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